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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

:

Shu KOBAYASHI et al.

Mail Stop: PCT

Serial No. NEW

Attorney Docket No. 2004-1442A

Filed September 10, 2004

PROCESS FOR ASYMMETRIC INTRAMOLECULAR [3+2] CYCLOADDITION OF HYDRAZONES [Corresponding to PCT/JP03/02862 Filed March 11, 2003]

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- each U.S. Patent and U.S. Patent application publication (for U.S. National applications filed after June 30, 2003 and International applications that have entered U.S. National Stage after June 30, 2003),
- [X] each reference previously cited and provided by WIPO in the international application PCT/JP03/02862; and/or
- [] each reference previously cited in prior parent application Serial No.
- 1a. [X] This Information Disclosure Statement is submitted:

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEE FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975.

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
 - a. [] that each item of information contained in this Information Disclosure

 Statement was first cited in any communication from a foreign patent office in a

 counterpart foreign application not more than three months prior to the filing of
 the Statement, or
 - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification

after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. []	Consideration of the following list of additional information (including any copending or
	abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4.	For each non-English language reference listed on the attached form PTO-1449, reference
	is made to:

- a. [] a full or partial English language translation submitted herewith,
- b. [] a foreign patent (International) office search report (in the English language) (Attachment F) submitted herewith,
- c. [] the concise explanation contained in the specification of the present application at page,
- d. [] the concise explanation set forth in the attached English language abstract,
- e. [] the concise explanation set forth below or on a separate sheet attached to the reference:
- 5. [X] a foreign patent (International) office search report (in the English language) (Attachment F) citing one or more of the references is enclosed.

Respectfully submitted,

Shu KOBAYASHI et al.

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEE FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975.

Ву ____

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Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 September 10, 2004

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	AM Kobayashi, Shu et al., "Asymmetric Intramolecular [3+2] Cycloaddition Reactions of Acylhydrazones/Olefins Using a Chiral Zirconium Catalyst," <i>Journal of American Chemical Society</i> (2002), 124(46), pp. 13678 to 13679.									
	AN	Fouchet, B. et al., "(3+2) Intramolecular Cationic Cycloadditions and 1,3-Dipolar Cycloadditions of Phenylhydrazones", <i>Tetrahedron Letters</i> (1981), 22(14), p. 1333-6.								
	AO	Kobayashi, Shu et al., "Chiral Catalyst Optimization Using Both Solid-phase and Liquid-phase Methods in Asymmetric Aza Diels-Alder Reactions," <i>Organic Letters</i> (2000), 2(9), pp. 1225 to 1227.								
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